

X

Sept. 13 - Oct 1, 1977

52.

Cruise Report

U.S.G.S. - Virgin Islands

77033

1. Ship: S.S. ALIANORA
2. Cruise No.:
3. Area of Operation: Virgin Island Platform of St. Thomas and St. John
4. Dates of Operation: 9/13/77-10/1/77
5. Personnel:

Mike Tate (Master)

Charles W. Holmes - Project Chief 9/13/77-9/21/77

Henry L. Berryhill, Jr. - Project Chief 9/22/77-9/24/77

Ray G. Martin - Project Chief 9/26/77-10/1/77

Ronald Miller

Timothy Martin

Neal Lillard

Kenneth Parolski

6. Purpose: The objective of the cruise was to obtain geologic information in order to map and define sand deposits in the territorial waters of the U.S. Virgin Islands.
7. Equipment: Del Norte Minisparker
8. Navigation: Motorola miniranger
9. Data Aquired: Approximately 1260 km of minisparker profiles
10. Comments: The active element was towed on the port side of the vessel with the hydrophone 100' astern on the starboard side; both were towed about 3' below the water surface. The pulse generator was fired at a 0.5 sec. rep. rate, with the recorded gated at a 0.25 sec. sweep. The records obtained were good to excellent. The upper 10 feet of the sediment column is blocked by the arrival of the bubble pulse. The surface of the platform's sand and carbonate rock from which a multiple reflection is produced. However, the depth of water was such that at least 100 ms of good record was obtained.
11. Tabulated Information:
 - a) Number of days at sea: 18
 - b) Number of working days: 16
 - c) Total ship track: 1400 km
 - d) Km of continuous data: 1270
 - e) Total No. of stations: N/A
 - f) Type of each sample: N/A

